# GV-MFD1501   1.3MP H.264 Super Low Lux WDR Mini Fixed Dome

- 1.3 Megapixel Progressive Scan super low lux CMOS
- Min. illumination at 0.01 lux
- Dual streams from H.264 and MJPEG
- Up to 30 fps at 1280 x 1024
- Day and night function (electronic)
- USB slot for GV-WiFi Adapter or USB hard drive
- Built-in micro SD card slot (SD/SDHC) for local storage
- Recording assigned by GV-Edge Recording Manager (Windows, Mac version)
- Active Tampering alarm
- Wide Dynamic Range (WDR)
- 3D noise reduction
- Two-way audio
- Defog
- Motion detection
- Privacy mask
- IP address filtering
- iPhone, iPad, Android
- DC 5V / PoE (IEEE 802.3af)
- Megapixel lens
- Supports iPhone, iPad, Android & 3GPP
- 31 languages on Web interface
- ONVIF (Profile S) conformant
- More Storage Option - NAS

\* No Memory card slot & local storage function for Argentina.

## Introduction

The GV-MFD1501 Series offers an indoor, fixed, mini-sized network camera with various lens options. The camera is equipped with a Super Low Lux CMOS image sensor with which the camera is capable of providing a color live view in near darkness. The camera's USB port which supports wireless connection through GV-WiFi Adapter (optional) or an external storage using a USB hard drive.
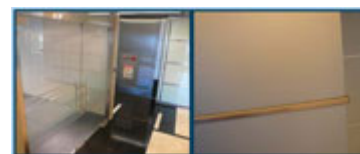
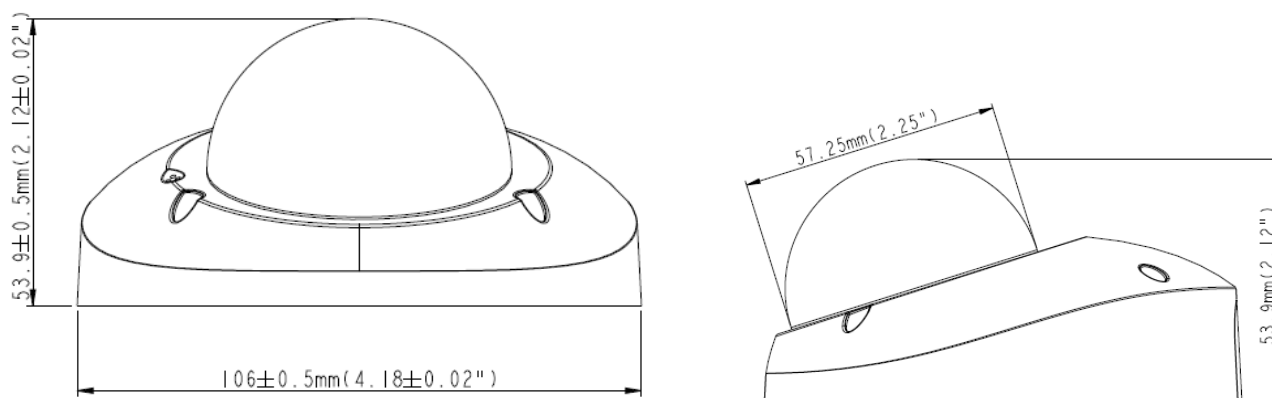## Active Tampering Alarm

| Tampered | Focus Change | Camera Shift |
|----------|--------------|--------------|

## Models

| Models | Iris | Focal Length (mm) | Maximum Aperture | Image Format |
|--------|------|-------------------|------------------|--------------|
| MFD1501-0F | Fixed | 2.8 mm | F/2.0 | 1/3" |
| MFD1501-1F | | 4 mm | F/1.5 | |
| MFD1501-2F | | 8 mm | F/1.6 | |
| MFD1501-3F | | 12 mm | F/1.6 | |
| MFD1501-4F | | 2.1 mm | F/1.8 | |
| MFD1501-5F | | 3.8 mm | F/1.8 | |

## Dimensions



## Specifications

| Camera | | GV-MFD1501 -0F | GV-MFD1501 -1F | GV-MFD1501 -2F | GV-MFD1501 -3F | GV-MFD1501 -4F | GV-MFD150 1-5F |
|---|---|---|---|---|---|---|---|
| Image Sensor | | 1/3" progressive scan super low lux CMOS | | | | | |
| Picture Elements | | 1280 (H) x 1024 (V) | | | | | |
| Minimum Illumination | Color B/W | 0.01 Lux | | | | | |
| Shutter Speed | | Automatic, Manual (1/5 ~ 1/8000 sec.) | | | | | |
| White Balance | | Automatic, Manual (2800K ~ 8500K) | | | | | |
| Gain Control | | Automatic | | | | | |
| S/N Ratio | | 55 dB | | | | | |
| WDR | | Yes | | | | | |
| **Lens** | | | | | | | |
| Megapixel | | Yes | | | | | |
| Day/Night | | Yes (Electronic) | | | | | |
| Iris | | Fixed | | | | | |
| Focal Length | | 2.8 mm | 4 mm | 8 mm | 12 mm | 2.1 mm | 3.8 mm |
| Maximum Aperture | | F/2.0 | F/1.5 | F/1.6 | F/1.6 | F/1.8 | F/1.8 |
| Mount | | M12, Pitch 0.5 mm | | | | | |
| Image Format | | 1/3" | | | | | |
| Horizontal FOV | | 87° | 67° | 35° | 22° | 124° | 64° |
| Operation | Focus | Fixed | | | | | |
| | Zoom | Fixed | | | | | |
| | Iris | Fixed | | | | | |
| **Operation** | | | | | | | |
| Video Compression | | H.264, MJPEG | | | | | |
| Video Streaming | | Dual streams from H.264 and MJPEG | | | | | |
| Frame Rate | | 30 fps at 1280 x 1024 (60/50 Hz) * The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes). | | | | | |
| Image Setting | | Brightness, Contrast, Saturation, Sharpness, Gamma, White Balance, Flicker-less 50/60 Hz, Image Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity, WDR, Defog, Super Low Lux, Denoise, Metering | | | | | |
| Audio Compression | | G.711, AAC (optional) | | | | | |
| Audio Support | | Two-Way Audio | | | | | |
| Sensor Input | | No | | | | | |
| Alarm Output | | No | | | | | |

**Video Resolution**

| | | |
|---|---|---|
| Main Stream | 4:3 | 1280 x 960, 640 x 480, 320 x 240 |
| | 16:9 | 1280 x 720, 640 x 360, 448 x 252 |
| | 5:4 | 1280 x 1024 (Default), 640 x 512, 320 x 256 |
| Sub Stream | 4:3 | 640 x 480, 320 x 240 |
| | 16:9 | 640 x 360, 448 x 252 |
| | 5:4 | 640 x 512, 320 x 256 (Default) |

**Network**

| | |
|---|---|
| Interface | 10/100 Ethernet |
| Ethernet Protocol | DHCP, DynDNS, FTP, HTTP, HTTPS, NTP, ONVIF (Profile S), PSIA, QoS (DSCP), RTSP, SNMP, SMTP, TCP, UDP, UPnP, 3GPP/ISMA |

**Mechanical**

| | | |
|---|---|---|
| Temperature Detector | | Yes |
| Camera Angle Adjustment | Pan | -45° ~ 45° |
| | Tilt | 0° ~ 90° |
| Connectors | Power | 2-pin terminal block, PoE |
| | Ethernet | Ethernet (10/100 Base-T), RJ-45 |
| | Audio | 1 In (built-in microphone),<br>1 Out (RCA female for speaker) |
| | USB | GV-WiFi Adapter or USB hard drive |
| | Local Storage | Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10)<br>* **SDXC** and **UHS-I** card types are not supported. |
| LED Indicator | | 4 LEDs: Link, ACT, Power, Status |

**General**

| | |
|---|---|
| Camera Housing | black, white |
| Environment Temperature | 0 °C ~ 50 °C (32 °F ~ 122 °F) |
| Humidity | 10% to 90% (no condensation) |
| Power Source | 5V DC/PoE (IEEE 802.3af) |
| Max. Power Consumption | 6 W |
| Dimension | ø 106 x 53.9 mm (4.2'' x 2.1") |
| Weight | 280 g (0.62 lb) |
| Regulatory | CE, FCC, RCM, RoHS compliant |

**Power over Ethernet**

| | |
|---|---|
| PoE Standard | PoE (IEEE 802.3af Power over Ethernet / PD) |
| PoE Power Supply Type | End-Span |
| PoE Power Output | Per Port 48V DC, 350mA. Max. 15.4 watts |

**Web Interface**

| | |
|---|---|
| Installation Management | Web-based configuration |
| Maintenance | Firmware upgrade through Web Browser or Utility |
| Access from Web Browser | Camera Live View, Video Recording, Change Video Quality, Bandwidth Control, Image Snapshot, Audio, Picture in Picture, Picture and Picture, Privacy Mask, Text Overlay, Digital PTZ |
| Language | Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian /Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish |

**Applications**

| | |
|---|---|
| Network Storage | GV-System (GV-DVR/NVR), GV-Backup Center, GV-Recording Server, GV-VMS |
| Smart Device Access | GV-Eye for iOS and Android |
| Live Viewing | IE, Mobile App |
| CMS Server support | GV-Control Center, GV-Center V2, GV-Vital Sign Monitor |

**Note:**

1. Mind the following limitations and requirements for the USB port:
   - The USB hard drive must be of 2.5'' or 3.5'', version 2.0 or above
   - The USB hard drive's storage capacity must not exceed 2TB
   - USB flash drives and USB hubs are not supported
   - External power supply is required for the USB hard drive
   - To connect the GV-WiFi Adapter, make sure it is connected before the camera is powered on.

2. Mind the following when using an inserted memory card for recording:
   - Recorded data on the memory card can be damaged or lost if the data are accessed while the camera is under physical shock, power interruption, memory card detachment or when the memory card reaches the end of its lifespan. No guarantee is provided for such causes.
   - The stored data can be lost if the memory card is not accessed for a long period of time. Back up your data periodically if you seldom access the memory card.
   - Memory cards are expendable and their durability varies according to the conditions of the installed site and how they are used. Back up your data regularly and replace the memory card annually.
   - To avoid power outage, it is highly suggested to apply a battery backup (UPS).
   - For better performance, it is highly suggested to use Micro SD card of MLC NAND flash, Class 10.
   - Replace the memory card when its read/write speed is lower than 6 MB/s or when the memory card is frequently undetected by the camera.
3. Specifications are subject to change without notice.

## Packing List

| | | | |
|---|---|---|---|
| 1. | Mini Fixed Dome | 7. | USB / Audio Y-cable |
| 2. | Torx Wrench | 8. | Power Adapter |
| 3. | Self Tapping Screw x 2 | 9. | GV-IPCAM H.264 Software DVD |
| 4. | Screw Anchor x 2 | 10. | GV-NVR Software DVD |
| 5. | Cable Stopper x 1 | 11. | Warranty Card |
| 6. | Short-Body RJ-45 Plug | | |

**Note:** The power adapter can be excluded upon request.

## Accessories

| Model No./Name | Details |
|---|---|
| **GV-Mount900 Wall Mount Bracket**<br> | Dimensions: 154 x 108 x 50 mm (6.1'' x 4.3'' x 2")<br>Weight: 240 g (0.53 lb) |
| **GV-Mount909 Wall Mount Bracket**<br> | Dimensions: 170 x 150 x 110 mm (6.7'' x 5.9" x 4.3'')<br>Weight: 610 g (1.34 lb) |
| **GV-Mount910 Power Box Mount Bracket**<br> | Dimensions: 112 x 98 x 7.5 mm (4.4'' x 3.9'' x 0.3'')<br>Weight: 105 g (0.23 lb) |

| Model No./Name | Details |
|---|---|
| **GV-Mount913 Power Box Mount Bracket** | Dimensions: Ø 146 x 7.5 mm (Ø 5.7'' x 0.3'')<br>Weight: 180 g (0.4 lb) |
| **GV-Mount918 Wall Mount Bracket for MFD/MDR/EFD/EDR** | Dimensions: Ø 145 x 117 x 96 mm (Ø 5.71 x4.60 x 3.78")<br>Weight: 350 g (0.77 lb) |
| **GV-PA191 PoE Adapter** | Dimensions (H x W x D): 43 x 69 x 40 mm (1.69" x 2.72" x 1.57")<br>Weight: 130 g (0.29 lb) |
| **Power Adapter** | Contact your sales representative for the countries and areas supported. |
| **GV-POE Switch** | The GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports. |
| **GV-WiFi Adaptor** | Dimensions: 15 x 15 x 155 mm (0.59'' x 0.59'' x 6.10'')<br>Weight: 20 g (0.04 lb) |